

Northeast Water Resources and Climate Change Forum, March 24, 2011, Beltsville, MD

| Name | Contact Info | E-mail | Areas of Interests |
|---------------------------|---|--|--|
| Christy Aden A | Project Specialist University of the District of Columbia Bldg 44 Room # 120 4200 Conn. Ave., NW Washington, DC 20008 PH 202-274-7091 | caden@udc.edu | Environmental Stewardship: <ul style="list-style-type: none"> Water Quality via Rain Garden Development and Youth and Teacher Education; Specialty Crops; Invasive Species; Food Sovereignty and Food Security |
| Jose Amador II | Professor Dept. of Natural Resources Science 024 Coastal Institute University of Rhode Island Kingston, RI 02881 PH 401-874-2902 | jamador@uri.edu | <ul style="list-style-type: none"> Use of molecular methods to track human fecal contamination Microbial ecology and biogeochemistry of onsite wastewater treatment systems |
| James (Jim) Anderson A | Professor of Wildlife Ecology and Management & Director, Environmental Research Center West Virginia University Division of Forestry and Natural Resources PO Box 6125 Morgantown, WV 26506-6125 PH 304 293-3825 | jim.anderson@mail.wvu.edu | Wetlands Ecology and Management, Wildlife Ecology and Management, Restoration Ecology |
| Linda Kay Benning A | Executive Director, Northeast Extension Directors 1307 New York Avenue, NW, Suite 400 Washington, DC 20005 PH 202-478-6065 | lbenning@apl.u.org | Cooperative Extension including all aspects from agriculture to the family unit use of water. |
| Fisseha Berhane | Graduate Student, Research Assistant The University of Connecticut U-4087, 1376 Storrs Road Storrs, CT 06269-4087 PH 860-486-1876 | fisseha.berhane@uconn.edu | <ul style="list-style-type: none"> Surface hydrology and climate interactions and feedbacks Drought trends in the USA Hydroclimatology of the USA: past and future |
| Kaye Brubaker A | Associate Professor and Director, Maryland Water Resources Research Center Department of Civil & Environmental Engineering 1173 Glenn L. Martin Hall University of Maryland College Park, MD 20742 PH 301-495-1965 | kbru@umd.edu | Water supply, floods, water quality, stream and watershed restoration, rainwater capture, water reuse, water & energy nexus, Chesapeake Bay Applying deterministic and probabilistic models to uncertainty analysis and risk assessment |

Vicky Chase UMD

| | | | |
|------------------------|---|--|--|
| Phyllis H. Carter | West Virginia State CARET Delegate West Virginia State University P.O. Box 1000 Institute, WV 25112 PH 304-766-4291 | Phyllis.H.Carter@wv.gov | <ul style="list-style-type: none"> • Waste Management • Prosperous and Nitrogen Remediation from the Chesapeake Bay • CO2 Sequestration |
| Robert Dadson | Professor University of Maryland Eastern Shore 30921 Martin Court Princess Anne, MD 21853 PH 410-651-6629 | rbdadson@umes.edu | <ul style="list-style-type: none"> • Watershed Hydrology and water quality—exploring challenges from climate variability and climate change • Adaptation to climate change |
| Art Gold | Professor and Director, Northeast States and Caribbean Islands Regional Water Program, 110 Coastal Institute University of Rhode Island Kingston, RI 02881 PH 401-874-2903 | agold@uri.edu | <ul style="list-style-type: none"> • One area of concern for Cornell Cooperative Extension is the impact of climate change on agriculture, including changes in flood/drought patterns. Another is increased impacts of storm events on development in tidal estuaries and coastal areas and other areas prone to flooding. Communicating climate change issues and impacts to a “disbelieving” audience such as local government officials also is of concern. |
| Deborah Grantham | Assistant Director Cornell Cooperative Extension 381 Roberts Hall, Cornell University Ithaca, NY 14853 PH 607-255-8229 | dgg3@cornell.edu | <ul style="list-style-type: none"> • Best management practices for reducing non-point source water pollution • Water quality chemistry and evaluation • Wetland restoration • Water-saving and purification technology development • Integrated water resource and watershed management |
| Mingxin Guo | Associate Professor Department of Agriculture & Natural Resources Delaware State University 1200 N. DuPont Hwy Dover, DE 19901 PH 302-857-6479 | mguo@desu.edu | <ul style="list-style-type: none"> • Impact of climate change on water quality and quantity in urban environments; stormwater management; agronomic water use efficiency for ethnic and specialty crops. |
| William (Bill) W. Hare | Associate Director, Cooperative Extension Service Director, Water Resources Research Institute University of the District of Columbia 4200 Conn. Ave., NW Washington, DC 20008 PH 202-274-7133 | whare@udc.edu | |

| | | | |
|-------------------------------|---|---|---|
| <p>Kyle Hartman A</p> | <p>Professor and Program Chair, Wildlife & Fisheries Program West Virginia University Division of Forestry and Natural Resources, 322 Percival Hall Morgantown, WV 26506-6125 PH 304-293-4797</p> | <p>Hartman@wvu.edu</p> | <p>I am interested in all aspects related to Climate Change impacts on water quality and quantity as it relates to aquatic organisms.</p> |
| <p>Fawzy Hashem</p> | <p>Research Associate Professor Department of Agriculture, Food and Resource Sciences, Trigg Hall University of Maryland Eastern Shore Princess Anne, Maryland 21853 PH 410-651-6632</p> | <p>fmhashem@umes.edu</p> | <p>Microbial Food Safety of Fresh Produce. Environmental Microbiology (Soil and Water Microbiology), Microbial Source Tracking, Bioremediation, Phytoremediation, Plant-Microbe Interactions.</p> |
| <p>Wellela Hirpassa</p> | <p>Water Quality Education Agent University of the District of Columbia 4200 Connecticut Avenue, NW Building 44, Room 120 Washington, DC 20008 PH 202-274-7087</p> | <p>whirpassa@udc.edu</p> | <p>Water Quality Education and Food Security</p> |
| <p>Michael Hoffmann A</p> | <p>Director Cornell University Agricultural Experiment Station 240 Roberts Hall Ithaca, NY 14853 PH 607-255-2552</p> | <p>mph3@cornell.edu</p> | <p>My interests focus on building collaborations across the region that improve our collective ability to address the challenges posed by global warming.</p> |
| <p>Paul T. Imhoff</p> | <p>Associate Professor Department of Civil & Environmental Engineering University of Delaware Newark, DE 19716 PH 302-831-0541</p> | <p>imhoff@udel.edu</p> | <p>Measurement of greenhouse gas emissions from animal feedlots and agricultural activities; measuring and modeling gas diffusion and advection in soils, including the influence of barometric pressure changes, alternative soil management practices, etc. on gas fluxes; developing and applying multi-domain models for describing fluid movement and biological reactions in soils.</p> |
| <p>William (Bill) Kustas</p> | <p>Supervisory Research Hydrologist Hydrology and Remote Sensing Lab Bldg 007, BARC-WEST Beltsville, MD 20705 PH 301-504-8498</p> | <p>Bill.Kustas@ars.usda.gov</p> | <ul style="list-style-type: none"> Multi-scale estimation of surface energy balance and evapotranspiration using thermal remote sensing. Modeling soil-plant-atmosphere interactions at micro and macro scales. |
| <p>Bill Lamp</p> | <p>Associate Professor Dept. of Entomology, Univ. of Maryland College Park, MD 20742 PH 301-405-3959</p> | <p>lamp@umd.edu</p> | <p>Integrated pest management, adaptation of IPM to climate change, forage crop production, freshwater invertebrates, nutrient pollution, agricultural ditches</p> |

| | | | |
|---------------------|--|--|--|
| Andrew Lazur | <p>Agriculture and Natural Resource Program Leader University of Maryland Extension 1212 Symons Hall University of Maryland College Park, MD 20742 PH 301-405-7992</p> | lazur@umd.edu | Water quality effects on aquatic natural resources – flora and fauna |
| Greg McCarty | <p>Soil Scientist USDA-ARS Hydrology & Remote Sensing Laboratory Building 007 BARC-West Beltsville, MD 20705 PH 301-504-7401</p> | greg.mccarty@ars.usda.gov | Impacts of climate change on soil quality and in particular carbon sequestration and storage. Impacts of climate change on water quality and in particular on health of the Chesapeake Bay Watershed. |
| Rubie G. Mize | <p>Assistant to the Executive Director, NERA Northeastern Regional Assoc. of State Agric. Experiment Station Directors USDA-BARC-West Building 3 Room 220 Beltsville, MD 20705 PH 301-504-8655</p> | rgmize@aesop.rutgers.edu | Northeast Forum - Program Coordinator |
| Hubert Montas | <p>Associate Professor Bioengineering Department University of Maryland – 1453 ANS College Park, MD 20742 PH 301-405-1196</p> | montas@umd.edu | Spatial Decision Support Systems (DSSs) for optimal resource allocation (eg. of BMPs) and evaluation of water quality and quantity response to alternative land management scenarios with climate change. The DSSs combine GIS, process models and expert systems. |
| Guy Moore | <p>CARET Representative – Maryland 2415 Woodbine Road Woodbine, MD 21797 PH 410-292-4300</p> | guymoore@verizon.net | Land Grant Universities in this area to pool resources to address dwindling budgets |
| Christopher Obropta | <p>Rutgers Cooperative Extension-Extension Specialist in Water Resources 14 College Farm Road New Brunswick, NJ 08901 PH 732-932-9800 x 6209</p> | Obropta@envsci.rutgers.edu | Dr. Obropta has a background in watershed management, water quality modeling, hydrologic and hydraulic modeling, and coastal engineering. His specific experience includes watershed restoration, onsite wastewater treatment system design and management, wasteload allocations and TMDL studies, stormwater management, wetland design, effluent dilution analyses, longshore sediment transport, computer-aided design, and Geographic Information Systems (GIS). He teaches Bioresource Engineering Design I & II, where he directs student design teams to develop solutions to complex real-life engineering problems. With his extensive and impressive background Dr. |

| | | | |
|---|--|--|---|
| <p>Mary Ann Ottfanger <i>A</i></p> | <p>Associate Vice President for Research Compliance and Policy Professor of Endocrinology 2106 Lee Building College Park, MD 20742 PH 301-405-6918</p> | <p>maottfanger@umresearch.umd.edu</p> | <p>Obropta leads his highly specialized team of Program Associates who are determined to create innovative solutions to water quality issues in New Jersey. Dr. Obropta is interested in learning how to incorporate resilience to the projected effects of climate change into his Extension programming.</p> <p>Speaker</p> |
| <p>Adam Parris <i>Climate Program</i></p> | <p>Adam Parris Program Manager - Regional Integrated Sciences and Assessment (RISA) NOAA - Climate Program Office 1315 East West Highway, 12th Floor Silver Spring, MD 20910 PH 301-734-1243</p> | <p>Adam.parris@noaa.gov</p> <p>http://www.climate.noaa.gov/cpo_pa/risa/</p> | <p>Presenter</p> |
| <p>Liqin Qu</p> | <p>Research Assistant Department of Natural Resources and the Environment University of Connecticut Unit 4087 - 1376 Storrs Rd. Storrs, CT 06269 PH 860-634-4572</p> | <p>liqin.qu@uconn.edu</p> | <ul style="list-style-type: none"> • Impacts of climate change on soil erosion processes and the consequence to water quality, especially the sediment concentration in the river flow. • The development of the remote sensing approach to obtain the data to study the impacts of climate change to the surface hydrological processes. |
| <p>Herbert Reed</p> | <p>Extension Educator University of Maryland Extension Calvert County Office Box 486 Prince Frederick, MD 20678 PH 301-855-1150</p> | <p>hreed@umd.edu</p> | <ul style="list-style-type: none"> • Well and Septic Education • Mitigating impacts of septic systems on ground and surface water quality • Competing demands on available water sources. |
| <p>Susan Riha</p> | <p>Professor Dept. of Earth & Atmospheric Sciences and Director, NYS Water Resources Institute 1110 Bradfield Hall Cornell University Ithaca, NY 14853 PH 607-255-1729</p> | <p>sir4@cornell.edu</p> | <p>Presenter</p> <ul style="list-style-type: none"> • Climate change impacts on hydrologic cycle, including drought, runoff and flooding • Improved application of climate change projections to hydrologic, crop and management projections and models • Decision making in the face of climate uncertainty (robust decisions, adaptive management, no regrets solutions) |

| | | | |
|--------------------------|--|---|--|
| William (Bill) F. Ritter | <p>Professor and Chair Bioresources Engineering Department University of Delaware Newark, DE. 19716 PH 302-831-2468</p> | <p>writer@udel.edu</p> | <p>I am interested in groundwater and surface water quality, nutrient balances, modeling of surface water quantity and quality as influenced by climate change and development of water resources management policies related to climate change and food production. I have had many years of research experience in groundwater and surface water quality, irrigation management and livestock manure management.</p> |
| Gary Robbins | <p>Professor of Geology Department of Natural Resources and the Environment University of Connecticut 1376 Storrs Road W.B. Young Bldg, Room 313 Storrs, CT 06269-4087 PH 860 486-2448</p> | <p>gary.robbins@uconn.edu</p> | <p>Sustainability of the crystalline bedrock water supply for agriculture. Impact of climate change on movement of contamination. Measurement of climate change impacts to ground water resources. Establishing realtime remote monitoring systems.</p> |
| Daniel Rossi | <p>Executive Director, NERA Northeastern Regional Assoc. of State Agric. Experiment Station Directors Foran Hall Rm. 363 59 Dudley Road New Brunswick, NJ 08901-8520 PH 732-932-9375 x337</p> | <p>rossi@aesop.rutgers.edu</p> | <p>Facilitator</p> |
| Kristen Saacke-Blunk | <p>State Program Leader Penn State Cooperative Extension Agriculture & Environment Center 206 Armsby Building University Park, PA 16802 PH 814-863-8756</p> | <p>ksaackebblunk@psu.edu</p> | <ul style="list-style-type: none"> • Agriculturally and urban impaired waters – adaptive management in restoration. • Stakeholder/public engagement in examining environmental adaptive management under climate change scenarios. • BMP efficiencies on working lands under climate change scenarios. |
| Ali Sadeghi | <p>Soil Physicist USDA-BARC-West, B-007 10300 Baltimore Ave. Beltsville, MD 20705 PH 301-504-6693</p> | <p>Ali.Sadeghi@ars.usda.gov</p> | <ul style="list-style-type: none"> • Water quality & pollution assessment, monitoring & modeling (various scales) • Pathogen fate and transport (monitoring/modeling) • Environmental risk assessment |
| Jeffrey Schloss | <p>Extension Professor, Biological Sciences and Water Resources Specialist University of New Hampshire 133 Spaulding Hall, 38 Academic Way Durham, NH 03824-3544 PH 603-862-3848</p> | <p>jeff.schloss@unh.edu</p> | <ul style="list-style-type: none"> • Watershed Water Quality Assessment • Nutrient Loading Coefficients/Watershed Modeling • Community Water Resources Management & Protection • Aquatic Invasive Species |

| | | | | |
|---------------------------|--|--|--|---|
| <p>Fred Servello</p> | <p>A</p> | <p>Associate Dean & Director Maine Agricultural and Forest Experiment Station University of Maine 5782 Winslow Hall, Room 101 Orono, ME 04469-5782 PH 207-581-3205</p> | <p>fred.servello@maine.edu</p> | <ul style="list-style-type: none"> • Citizen Science/Volunteer Water Quality Monitoring • Sustainable Watershed Development/Landscaping Practices <p>All above in context of Climate Change</p> |
| <p>Steve Shaw</p> | <p>Research Associate Dept. of Earth and Atmospheric Sciences Cornell University Ithaca, NY 14853 PH 607-254-7163</p> | <p>sbs11@cornell.edu</p> | <ul style="list-style-type: none"> • hydroclimatology of floods and drought in the northeast • evaluating traditional metrics (such as Palmer Drought Stress Index) and considering new metrics that are appropriate for projecting future changes in crop yields • critically evaluating the uncertainty of downscaled climate model projections and assessing their suitability for adaptation planning | |
| <p>Adel Shirmohammadi</p> | <p>Associate Dean and Associate Dir. Maryland Agric. Experiment Station University of Maryland 1201 Symons Hall College Park, MD 20742 PH 301-405-2459</p> | <p>ashirmo@umd.edu</p> | <ol style="list-style-type: none"> 1. Watershed Hydrologic and water quality Modeling and Monitoring. 2. Impact of climate variability on hydrologic and water quality responses of watersheds 3. Factors affecting water resources (both quantity and quality) 4. Watershed Sustainability (water quality, economics, human health) as affected by Climate change 5. | |
| <p>Iveracoftis Short</p> | <p>Project Specialist University of the District of Columbia Bldg 44 Room # 120 4200 Conn. Ave., NW Washington, DC 20008 PH 202-274-7171</p> | <p>ishort@udc.edu</p> | <p>Environmental Stewardship:</p> <ul style="list-style-type: none"> • Water Quality via Rain Garden Development and Youth and Teacher Education; • Specialty Crops; • Invasive Species; • Food Sovereignty and Food Security | |

| | | | |
|------------------|---|--|---|
| Joseph T. Spence | Director Beltsville Area USDA - Agricultural Research Service 10300 Baltimore Avenue, Room 223 Beltsville, MD 20705 PH 301-504-6078 | Joseph.Spence@ars.usda.gov | Speaker |
| Dariusz Swietlik | Director North Atlantic Area USDA - Agricultural Research Service 600 E. Mermaid Lane Wyndmoor, PA 19038-8598 PH 215-233-6593 | Dariusz.Swietlik@ars.usda.gov | |
| Lee Tryhorn | Department of Earth and Atmospheric Sciences 1121 Bradfield Hall Cornell University Ithaca, New York 14853 PH 607-216-7008 | lee.tryhorn@cornell.edu | Climate adaptation, extreme events, linking physical and social science, using climate information for decision-making and planning, non-stationarity |
| Louie Tupas | Division Director Global Climate Change USDA - National Institute of Food and Agriculture 1400 Independence Avenue SW Washington, DC 20250 PH 202-401-4926 | ltupas@nifa.usda.gov | Presenter I am interested on the impacts of climate variability and change on water resources and the development of the science that produces new management strategies for adaptation to future climate scenarios. I am particularly interested in water management strategies for agriculture and forestry production systems and for managed agroecosystems that provide ecosystem services. |
| Glenn Warner | Professor Dept. of Natural Resources and the Environment University of Connecticut 1376 Storrs Rd. Unit 4087 Storrs, CT 06269-4087 PH 860-486-0140 | glenn.warner@uconn.edu | Water resources, hydrologic processes, watershed modeling, systems modeling, hillslope hydrology, ground water-surface water interactions |
| Cheng-i Wei | Dean, College of Agric. and Natural Res. Director, University of Maryland Extension Director, MD Agric. Experiment Station 1296 Symons Hall University of Maryland College Park, MD 20742 PH 301-405-2072 | wei@umd.edu | Speaker <ul style="list-style-type: none"> • Environmental toxicology and contamination • Environmental microbiology |

| | | | |
|-------------------------|--|---|---|
| <p>Wilfred Wollheim</p> | <p>Assistant Professor UNH, Natural Resources and the Environment Morse Hall, Room 211 Durham, NH 03824 PH 603-862-0812</p> | <p>wil.wollheim@unh.edu</p> | <p>Biogeochemical and hydrological responses to land use and climate change Controls of nutrient flux and attenuation in river networks The role of storm events in controlling mobilization and fate of carbon and nutrients from different land uses Nitrogen and carbon cycling in aquatic environments Regional and global biogeochemistry of nutrients and carbon Feedbacks among biogeochemistry, hydrology, and human activities through time Development of regional to continental scale aquatic ecosystem models Characterization of hydrology-related ecosystem services</p> |
| <p>Zhao Xue</p> | <p>Research Assistant Department of Natural Resources and the Environment University of Connecticut 1376 Storrs Road, Unit 4087 Storrs, CT 06269 PH 860-336-8006</p> | <p>zhao.xue@uconn.edu</p> | <ul style="list-style-type: none"> • Water resource management modeling in the framework of geographic information system • Biofuel potential assessment in Connecticut |
| <p>Xiusheng Yang</p> | <p>Professor University of Connecticut 1376 Storrs Rd Unit 4087 Storrs, CT 06269 PH 860-486-0135</p> | <p>xiusheng.yang@uconn.edu</p> | <ul style="list-style-type: none"> • Natural resources engineering and modeling • Multimedia transport processes • Atmospheric-hydrologic-ecologic interactions • Biometeorology/microclimatology • Greenhouse engineering/greenhouse environment control |
| <p>In-Young Yeo</p> | <p>Assistant Professor Department of Geography University of Maryland, 1159 LeFrak Hall College Park, MD 20742 PH 301-405-3203</p> | <p>iyeo@umd.edu</p> | <p>Watershed modeling and analysis, land use modeling, GIS, spatial analysis</p> |